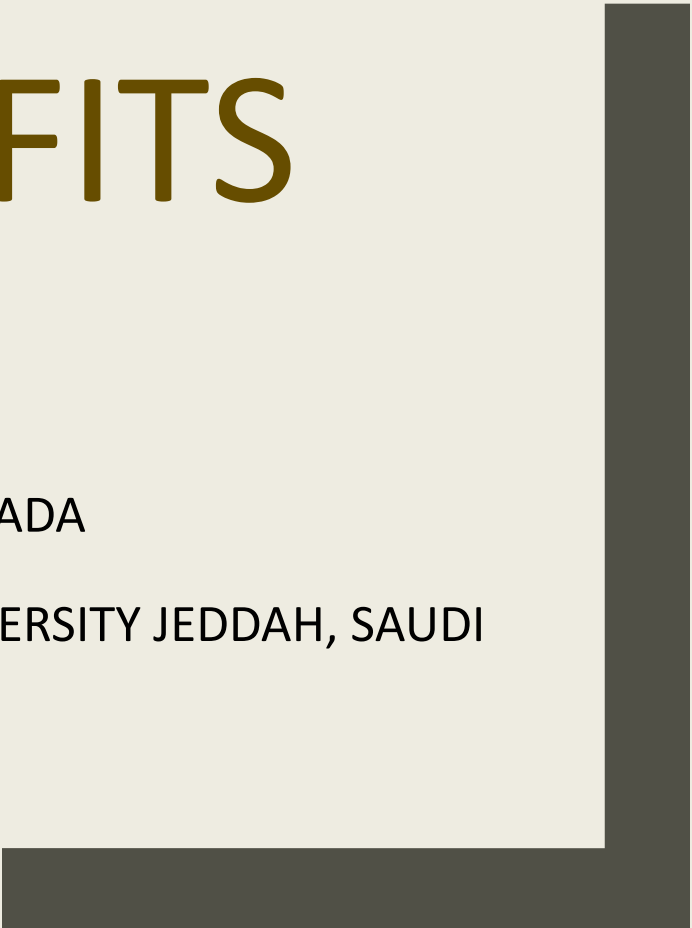




CLIMATE BENEFITS OF NAJD

SUBMITTED TO: PROF. HISHAM MORTADA

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ARABIA.





BEING A TEXT OF TERM PAPER PRESENTED BY:


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MAIN THEME : CLIMATE BENEFIT/EFFECT OF NAJD

PRESENTED, IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE COURSE

ARCHITECTURE AND HERITAGE OF SAUDI ARABIA



Architecture of Saudi Arabia Najd region

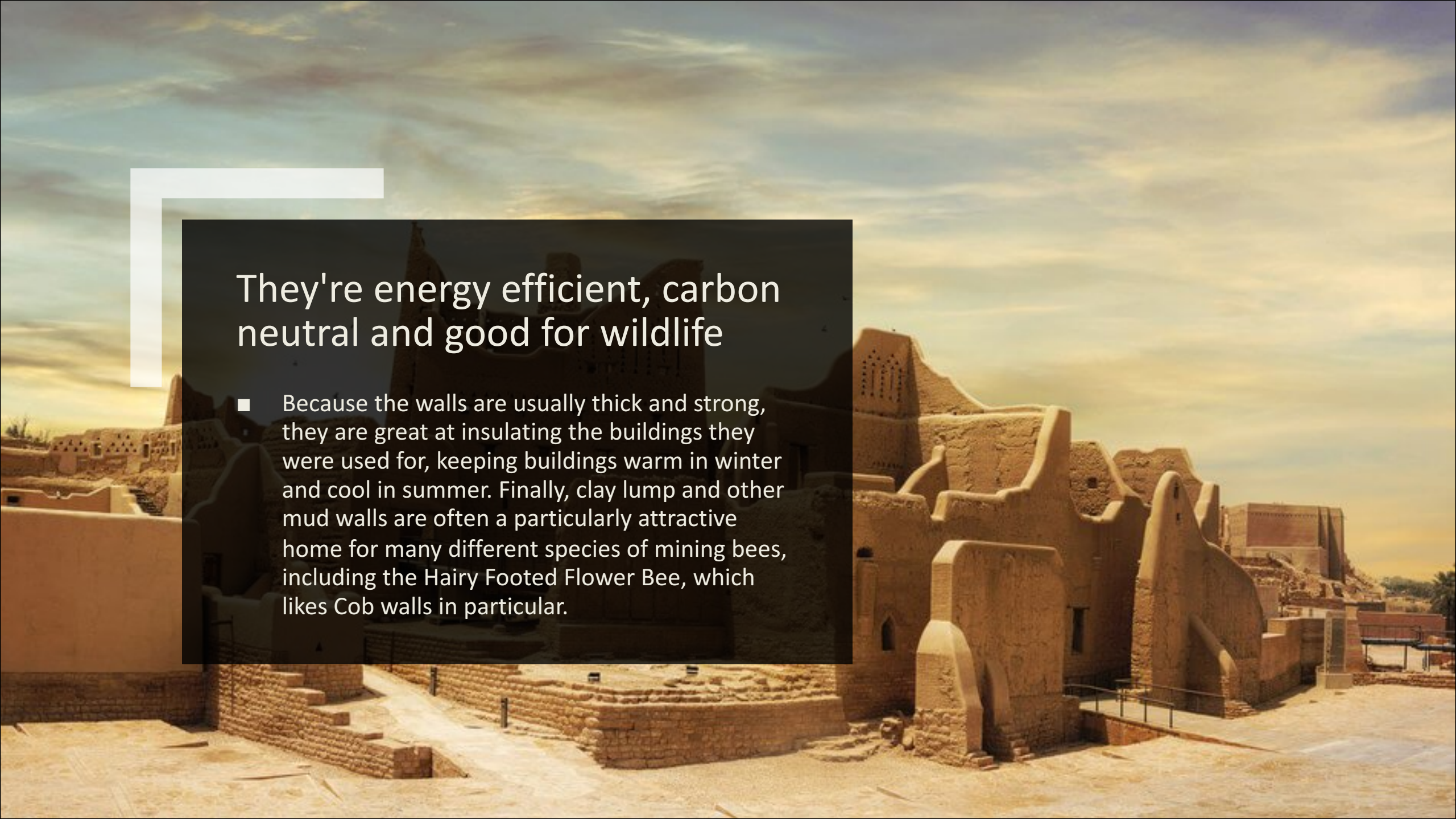
- In the **Najd** area, the traditional houses are typically two storeys high and designed around an open central courtyard. The form of the courtyard is typically geometric like a rectangle or a square and functions as the lungs of the houses to monitor the microclimate and provide the family with a private space to preserve private life.
- The houses are situated on either side of the narrow streets, providing pedestrians with a shady location. In summer, the roof level of the house is used for sleeping.



Sun-dried mud bricks and mud are the main materials for building this type of houses.



Mud bricks made from soil containing clay will have a natural waterproof quality that also controls and combats humidity.




They're energy efficient, carbon neutral and good for wildlife

- Because the walls are usually thick and strong, they are great at insulating the buildings they were used for, keeping buildings warm in winter and cool in summer. Finally, clay lump and other mud walls are often a particularly attractive home for many different species of mining bees, including the Hairy Footed Flower Bee, which likes Cob walls in particular.



Advantages of palm trees in wild life

- One advantage is that their leaves and branches are used to make roofs and other materials for using in homes, so some farmers don't have to spend much money on building. Moreover, Their leaves and branches aren't only used to make roofs, but also used for some parts of the building and furniture with high quality.

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- The palm oases surrounding the village reduce the hot and dry desert climate that prevails most of the year.



So the major important of the palm trees is to reduce the wind pressure on the heritage buildings

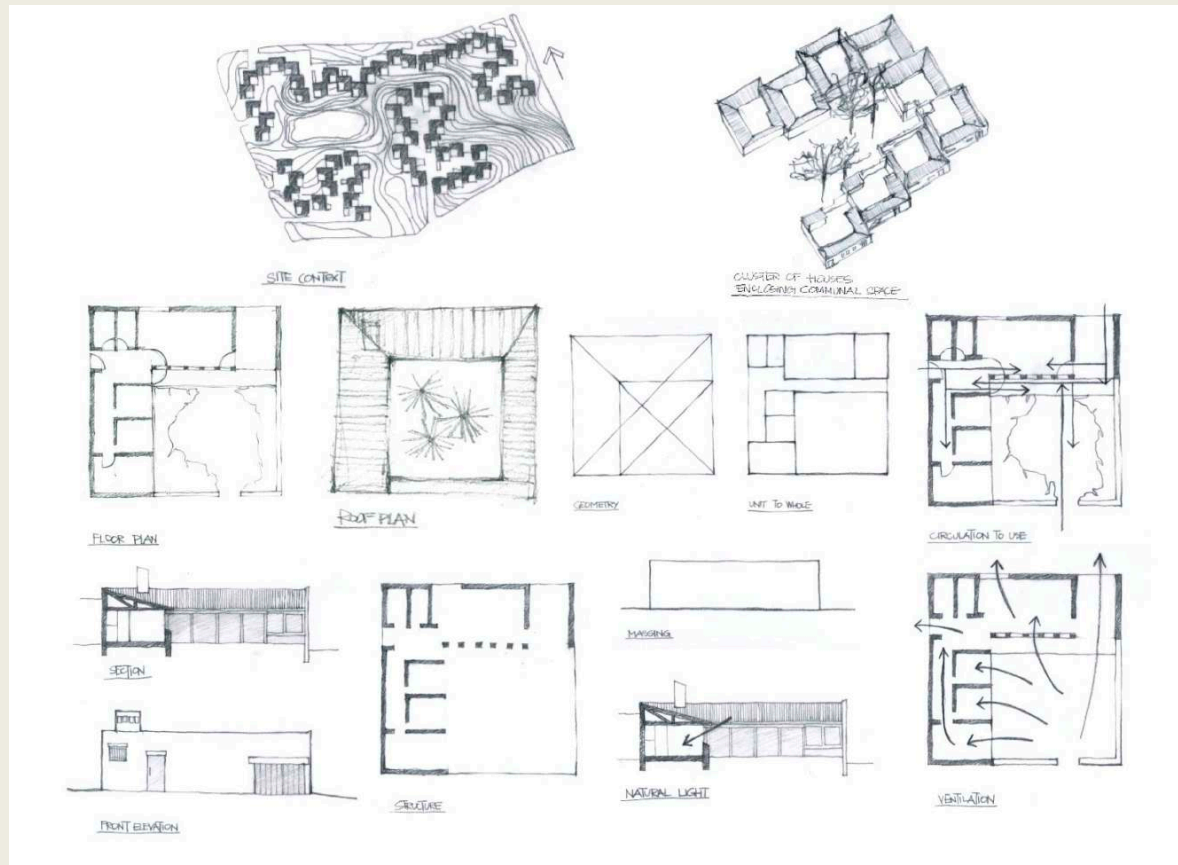
Ashar Resort

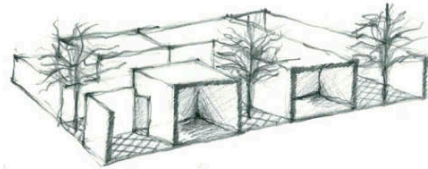
- The Royal Commission for Al Ula (RCU) of Saudi Arabia
- has been working with Accor to extend and run Ashar Resort.
- The expansion is part of the strategy of the Royal Commission to establish
- "Al Ula as a global tourist destination and heritage place for the world."



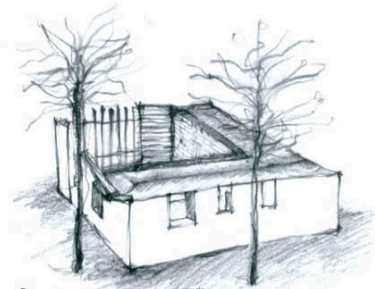
Saudi Arabia's heritage destination Al Ula partners with Accor

COURTYARD AND AIRFLOW

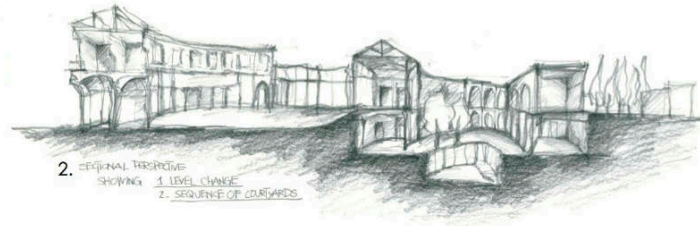




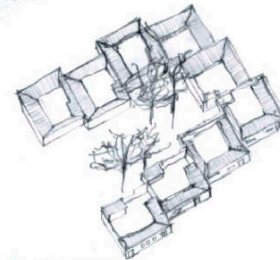
1. SECTION SHOWING OUTDOOR & INDOOR SPACE



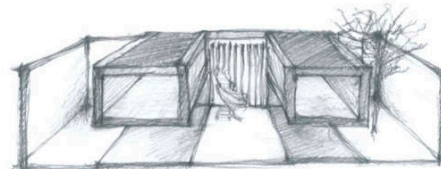
3. OVERALL VIEW SHOWING RELATIONSHIP OF COURTYARD & HOUSE



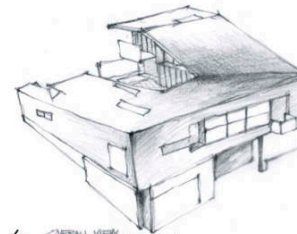
2. SECTIONAL PERSPECTIVE
SHOWING 1. LEVEL CHANGE
2. SEQUENCE OF COURTYARDS



4. CLUSTER OF HOUSES
SHOWING COMMUNAL SPACE



5. SECTIONAL PERSPECTIVE SHOWING
INTERIOR & EXTERIOR SPACES



6. OVERALL VIEW
SHOWING PENT ELEVATION
& SEMI-ENCLOSED COURTYARD

